THE DESIGN OF LEARNING MANAGEMENT SYSTEM THAT ADAPT CONTENT LEARNING PATH AND LEARNING TASK ACCORDING TO LEARNER

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0. Introduction

1. A Knowledge base adaptive LMS

2. Screen design of adaptive LMS

3. Adaptive Method

4. Adaptive LMS Diagram
Introduction

- Individual learners
- Current’s not adaptive Learning Management System

http://www.creativelearningcentre.com/Products/Training-Style-Analysis/Pyramid-Model.html
Activists are people who learn by doing. They like to involve themselves in new experiences, and will ‘try anything once’. They tend to act first and consider the consequences afterwards.

Reflectors learn by observing and thinking about what happened. They like to consider all the possible angles and implications before coming to a considered opinion. They spend time listening and observing, and tend to be cautious and thoughtful.

Theorists like to understand the theory behind the actions. They need models, concepts and facts in order to learn. They like to analyse and synthesise, and feel uncomfortable with subjective judgements.

Pragmatists are keen on trying things out. They look for new ideas that can be applied to the problem in hand. They like to get on with things and tend to be impatient with open-ended discussions; they are practical, down-to-earth people.
Learning Style

Activists
Simulation
Si → Ex
Ex → Tr

Reflectors
Example
Ex → Tr
Si → Ex

Pragmatists
Exercise
Ec → Si
Tr → Ex

Theorists
Theory
Tr → Ec
Ec → Si

Unit Presentation

Course Structure

Knowledge Domain

A Knowledge base adaptive LMS

Learner Model

Learner Profile
Knowledge’s learner preference profile

Pedagogical Model

Simulation
Exercise
Example
Theory

Domain Model

Courseware engine

User Interface

The 8th Distance Learning & the Internet conference.
Adaptive Method

- Adaptive Content
- Adaptive Learning path
- Adaptive Learning task

Adaptive Learning Path

Adaptive Learning Task

Learning Style's Individual

Adaptive Learning Management System

Pedagogical Model

Domain Model

Adaptive Content

Learner Model

Learner background knowledge

Individual

Adaptive Learning Path

Learner content Preference

Learner Model

Background knowledge
Screen design of Adaptive Learning Management System

Picture 1: Learner Login & Teacher Login
Screen design of Adaptive Learning Management System

Picture 2: Course unit
หมายถึง ผู้เรียนได้เรียนผ่านมาแล้ว
หมายถึง ผู้เรียนสามารถเลือกเรียนได้
หมายถึง ผู้เรียนยังมีพื้นฐานไม่พอที่จะเรียนบทเรียนหรือมีการจัดลำดับลำดับการเรียนก่อน – หลัง (Prerequisite) ของบทเรียนจากผู้สอน
หมายถึง ผู้เรียนกำลังเรียนอยู่ในบทเรียนนั้นหรือสถานะระดับความรู้ของผู้เรียน

คลิกปุ่ม **start** เมื่อต้องการเริ่มเรียน

**Picture 3 : Spatial map of Adaptive Learning Management System**
Screen design of Adaptive Learning Management System

Unit 5
Variable and Operator

Example 1

<?
$a=5;
$b=3 ;
$c=7;
echo $a;
?>

5

Example

<?
$a=5;
$b=3 ;
$c=7;
echo a ;
?>

Output

Output

Simulation  Example  Theory  Exercise

Picture 4 : Present unit in the Adaptive Learning Management System
Adaptive Learning Management System Diagram

Picture 5: USE CASE of Adaptive Learning Management System
Adaptive Learning Management System Diagram

Picture 6: ACTIVITY DIAGRAM of Adaptive Learning Management System
Conclusion and Future work

• Implement Adaptive Learning Management System
Recommendations

Unit 5: Variable and Operator

Example 1

```
<? $a=5;
$b=3;
$c=7;
echo $a;
?>
```

Output: 5

Example 2

```
<? $a=5;
$b=3;
$c=7;
echo \$a;
?>
```

Output: 5

We need to place a dollar sign before the variable name.